

Flo-Tite, Inc.

Valves & Controls

1 & 2 PC FULL BORE FIRE SAFE BALL VALVES

FUSION SERIES

MODELS

T23 Full Port (2PC)

S23 Seal Weld (1PC)

SIZE Range 1/4 thru 4"

1/4 - 2" 2000 WOG

2 1/2 - 4" 1500 WOG

STEAM T23 - 150 SWP
S23 - 250 SWP

API 607-5

NACE MR-01-75

THREADED ENDS

ANSI B1-20-1 NPT

Shell Wall ANSI-B16.34

Testing to 3000 PSI

ANTI-STATIC GROUND

LOCKING HANDLE

OVAL HANDLE

TRACEABILITY

FOUNDRY HEAT # FOR ALL VALVES

METAL NAME PLATES IDENTIFY

ALL SOFT PARTS



1" - T23



2" - S23

| SIZE | T23 TORQUE | S23 TORQUE | WEIGHT LBS | C _v |
|-------|------------|------------|------------|----------------|
| 1/2 | 60 | 85 | .97 | 15 |
| 3/4 | 80 | 112 | 1.35 | 38 |
| 1 | 95 | 130 | 2.25 | 65 |
| 1 1/4 | 190 | 265 | 3.20 | 118 |
| 1 1/2 | 318 | 440 | 5.20 | 195 |
| 2 | 385 | 530 | 8.65 | 320 |
| 2 1/2 | 480 | 670 | 14.77 | 410 |
| 3 | 800 | 1100 | 21.60 | 640 |
| 4 | 1700 | 2300 | 44.75 | 1660 |

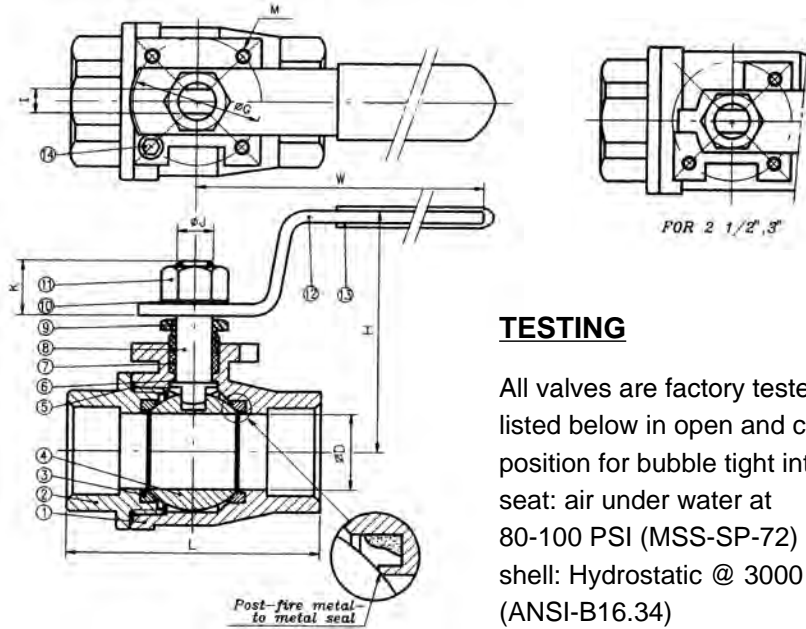
Seal Weld Design Model S23

Eliminating the possibility of body tail piece unthreading
Eliminating any possible leakage at body joints - safe, sure pressure containment.

Automatic Welding equipment is used for welding body joints. The welding width is always uniform and the weld penetration is consistent. Our equipment maintains a consistent water flow inside the valve, this assures a safe temperature which prevents damage to all valve seats and seals.

DESIGN & TECHNICAL DATA

FUSION SERIES



TESTING

All valves are factory tested as listed below in open and closed position for bubble tight integrity seat: air under water at 80-100 PSI (MSS-SP-72)
shell: Hydrostatic @ 3000 PSI (ANSI-B16.34)

MODELS

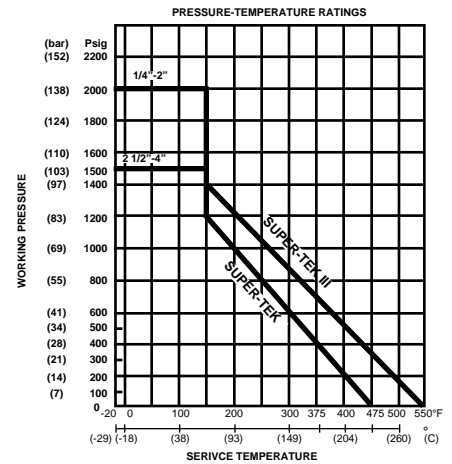
T23 Full Port 2 PC
S23 Full Port Seal Weld 1 PC

PRESSURE RATINGS

1/4 - 2" 2000 WOG
2 1/2 - 4" 1500 WOG

STEAM WORKING PRESSURE

T23 - 150 SWP S23 - 250 SWP



DIMENSIONS

| SIZE | | ØD | | L | | I | | ØJ | | K | | ØG | | H | | W | | M |
|--------|-----|------|------|------|------|------|----|------|----|------|------|------|-----|------|-------|-------|-----|-----|
| in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | |
| 1/4" | 8 | 0.43 | 11 | 2.32 | 59 | 0.20 | 5 | 0.31 | 8 | 0.35 | 9 | 1.42 | 36 | 2.17 | 55 | 5.31 | 135 | M5 |
| 3/8" | 10 | 0.49 | 12.5 | 2.32 | 59 | 0.20 | 5 | 0.31 | 8 | 0.35 | 9 | 1.42 | 36 | 2.17 | 55 | 5.31 | 135 | M5 |
| 1/2" | 15 | 0.59 | 15 | 2.54 | 64.5 | 0.20 | 5 | 0.31 | 8 | 0.45 | 11.5 | 1.42 | 36 | 2.24 | 57 | 5.31 | 135 | M5 |
| 3/4" | 20 | 0.79 | 20 | 2.87 | 73 | 0.24 | 6 | 0.39 | 10 | 0.59 | 15 | 1.42 | 36 | 2.46 | 62.5 | 5.31 | 135 | M5 |
| 1" | 25 | 1.00 | 25.4 | 3.37 | 85.5 | 0.31 | 8 | 0.47 | 12 | 0.63 | 16 | 1.65 | 42 | 2.70 | 68.5 | 6.50 | 165 | M5 |
| 1 1/4" | 32 | 1.26 | 32 | 3.94 | 100 | 0.31 | 8 | 0.47 | 12 | 0.71 | 18 | 1.65 | 42 | 2.91 | 74 | 6.50 | 165 | M5 |
| 1 1/2" | 40 | 1.50 | 38 | 4.53 | 115 | 0.31 | 8 | 0.55 | 14 | 0.79 | 20 | 1.97 | 50 | 3.56 | 90.5 | 6.89 | 175 | M6 |
| 2" | 50 | 1.97 | 50 | 5.28 | 134 | 0.31 | 8 | 0.55 | 14 | 0.79 | 20 | 1.97 | 50 | 3.92 | 99.5 | 6.89 | 175 | M6 |
| 2 1/2" | 65 | 2.56 | 65 | 6.54 | 166 | 0.47 | 12 | 0.79 | 20 | 1.14 | 29 | 2.76 | 70 | 5.06 | 128.5 | 9.57 | 243 | M8 |
| 3" | 80 | 3.15 | 80 | 7.44 | 189 | 0.47 | 12 | 0.79 | 20 | 1.14 | 29 | 2.76 | 70 | 5.49 | 139.5 | 9.57 | 243 | M8 |
| 4" | 100 | 3.94 | 100 | 9.09 | 231 | 0.63 | 16 | 0.98 | 25 | 1.22 | 31 | 4.02 | 102 | 6.59 | 167.5 | 10.79 | 274 | M10 |

Flo-Tite reserve the rights to modify our product design or construction for improvement without prior notice.

MATERIALS LIST

| NO. | PARTS | S-23 SS | S-23 CS |
|-----|---------------|--------------------|-------------------|
| 1 | BODY | ASTM A351-CF8M | ASTM A216-WCB |
| 2 | END CAP | ASTM A351-CF8M | ASTM A216-WCB |
| 3 | SEAT | SUPER-TEK III | 25% CARBON TFM |
| 4 | BALL | ASTM A351-CF8M/316 | ASTM A351-CF8/304 |
| 5 | GASKET | GRAPHITE | GRAPHITE |
| 6 | THRUST WASHER | GRAPHITE | GRAPHITE |
| 7 | STEM PACKING | GRAPHITE | GRAPHITE |
| 8 | STEM | ASTM A276-316 | ASTM A276-304 |
| 9 | GLAND | AISI 304 | AISI 304 |
| 10 | HANDLE WASHER | AISI 304 | AISI 304 |
| 11 | HANDLE NUT | AISI 304 | AISI 304 |
| 12 | HANDLE | AISI 304 | ZINC PLATED STEEL |
| 13 | HANDLE COVER | PVC | PVC |
| 14 | STOP SCREW | AISI 304 | CARBON STEEL |

MATERIALS LIST

| NO. | PARTS | T-23 SS | T-23 CS |
|-----|---------------|--------------------|-------------------|
| 1 | BODY | ASTM A351-CF8M | ASTM A216-WCB |
| 2 | END CAP | ASTM A351-CF8M | ASTM A216-WCB |
| 3 | SEAT | SUPER-TEK | TFM 1600 |
| 4 | BALL | ASTM A351-CF8M/316 | ASTM A351-CF8/304 |
| 5 | GASKET | GRAPHITE | GRAPHITE |
| 6 | THRUST WASHER | | |
| 7 | STEM PACKING | GRAPHITE | GRAPHITE |
| 8 | STEM | ASTM A276-316 | ASTM A276-304 |
| 9 | GLAND | AISI 304 | AISI 304 |
| 10 | HANDLE WASHER | AISI 304 | AISI 304 |
| 11 | HANDLE NUT | AISI 304 | AISI 304 |
| 12 | HANDLE | AISI 304 | ZINC PLATED STEEL |
| 13 | HANDLE COVER | PVC | PVC |
| 14 | STOP SCREW | AISI 304 | CARBON STEEL |